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Approved For Release 2002/01/02 : CIA-RDP78B04747A002900020005-4

18 July 1963

MEMORANDUM FOR: Assistant for Plans and Development
THROUGH : Executive Secretary, TDC
SUBJECT : Staff Study - Additional Funds to Complete the
[REDACTED] Panoramic Stereoviewer

FROM:

To provide additional cost for the completion of the Panoramic Stereoviewer.

DISCUSSION:

1. As of 28 June 1963, approximately 89% of the funds allocated to develop a Panoramic Stereoviewer had been expended by [REDACTED]. The forecast of expenditures indicates that 100% of the contract cost, exclusive of fixed fee, will be reached during the week of 15 July. Additional funds in the amount of [REDACTED] are required to complete the viewer. It is extremely important that notification of additional funds allocation be given to [REDACTED] by 22 July in order to prevent stoppage of work.

2. Some of the problems encountered on the Panoramic Stereoviewer and contributing to this overrun are:

a. The motors for driving the film in X direction and maintaining film tension were found to be inadequate. Horsepower was too low and the type of motor did not lend itself to sensitive speed and torque control. Therefore, a new motor and control system is being developed. A breadboard test of the control system has given favorable results. The design objective of this control is to provide a variable speed of 0.5 to 5 inches per second with slow speed of 200 feet per minute.

b. The X and Y manual drives were too slow and the frictional drag was great. Therefore, the manual drive take-offs and gear ratios are now being changed. The manual control knobs proved to be unsatisfactory and are being replaced with hand wheels to improve the drive.

DECLASS REVIEW by
NIMA/DOD

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c. It has been necessary to modify the sheet metal housing in order to provide two 10" x 18" x 5/8" deep compartments to house the electronic components and power supplies.

d. Originally, plastic drums were provided as viewing stages. The film wrapped around the periphery of the drum and pressure plates were not required for film flattening. However, the plastic drums are not acceptable because of the lack of resistance to abrasion. Investigation into coating the drums with a substance to produce a hard surface was not successful due to the lack of chemical and physical stability of the plastic. These drums are being replaced with ones made of glass. Tolerances for mounting are extremely critical. Therefore, it will be necessary to grind the inner and outer diameter of the drums to precise dimensions.

RECOMMENDATION:

It is recommended that additional funding in the amount of [redacted] be authorized for completing the [redacted] Panoramic Stereoviewer. This will increase the total estimated contract cost to [redacted]

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[redacted]

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Development Branch, P&DS

APPROVED: _____
Executive Director, NPIC

_____ Date

Distribution:
Orig & 1 - LB/AS/NPIC
2 - DB/P&DS

NPIC/P&DS/DB: [redacted] (18 July 1963)

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